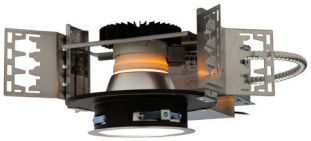
Lumination™ LED Luminaires

Downlights Powered by Infusion™

DI4R - 4" Round Aperture



Project name _____

Date _____

Type _____

Product Description:

Lumination DI Series LED downlights are powered by the Infusion™ downlight module for exceptional efficacy and color rendering. Designed for new construction applications, the DI4R is available in four color temperatures and three lumen packages, all with 90+ CRI. Matching custom engineered reflectors ensure a 45 degree cutoff. The twist-in Infusion DLM LED module allows for tool-free replacement and upgrade as LED technology advances, ensuring the lowest total cost of ownership.

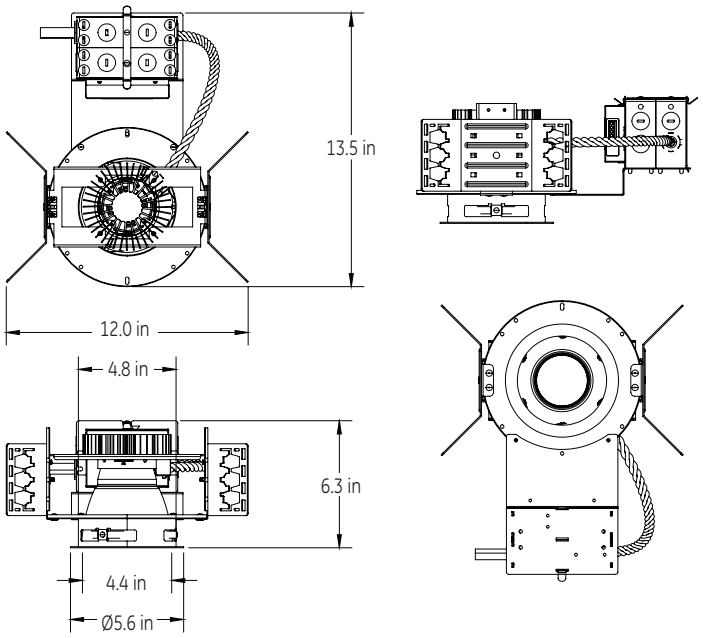
Targeted Performance Summary:

Distribution Patterns: Wide
Input Voltage: 120, 277V, 347V
Standard Dimming Controls: 0-10V or Phase Control Dimming to 10%
CCT: 2700K, 3000K, 3500K, 4000K
CRI: 90
Color Consistency: 4 Step MacAdam Ellipse
Lifetime Rating: 50,000 Hours
Input Frequency (Hz): 60Hz
Power Factor: >0.9
Mounting Options: Hanger bars for grid or drywall ceilings
Weight: 5.1 lb
IC Rating: Non-IC Rated
Limited Warranty: 5 years system
Files Available: LM79, LM80, IES, Revit

Nominal Module Lumens	1000	1500	2000
Delivered Lumen Output	860	1270	1730
System Input Power (W)	17	23	29
System Efficacy (LPW)	51	55	60
Emergency Mode Lumens	585	650	710

Product Dimensions:

DI4R



Listings: c UL us LISTED

- UL and cUL Listed.
- Suitable for damp locations.

Awards: Next Generation Luminaires 2014 Indoor

a product of ecomagination℠

ENERGY STAR

Ordering Information: A complete fixture consists of a **Housing + Reflector**

For shortest lead times, order **standard reflector options shown in bold.**

1. Housing – Example: DI4R209351V10

D I 4 R _ _ _

Housing-Only Option

Lumination DI series fixtures without LED modules are stocked in GE distribution centers for quick shipment. These fixtures can be shipped directly to job sites for rough-in, and then later fitted with the appropriate Infusion LED module and trim kit to complete the installation. The unprecedented interchangeabiltiy and flexibility of the Infusion LED module makes this possible.

With the Housing-Only option, distributors can:

- Order just the housings for stock, and then complete the order with the appropriate Infusion LED module and reflector at a later date
- Order the stocked housing, module, and reflector all at once for a complete fixture in under 2 weeks

For the housing-only option: A complete fixture consists of a **Housing + Infusion LED Module + Reflector**

4" Round Housing-Only Fixtures & LED Modules

Downlight Housing-Only			Compatible LED Modules		
PRODUCT CODE	DESCRIPTION CODE	PRODUCT DESCRIPTION	PRODUCT CODE	DESCRIPTION CODE	PRODUCT DESCRIPTION
83624	DI4RLL1V10HO	4" Round Housing-Only, 120V, Low Lumen Platform, 0-10V	**99607**	DLM1000/927	1000 LM, 90 CRI, 2700K
83625	DI4RLL2V10HO	4" Round Housing-Only, 277V, Low Lumen Platform, 0-10V	**99608**	DLM1000/930	1000 LM, 90 CRI, 3000K
			99609	DLM1000/935	1000 LM, 90 CRI, 3500K
			99610	DLM1000/940	1000 LM, 90 CRI, 4000K
			99611	DLM1500/927	1500 LM, 90 CRI, 2700K
			99612	DLM1500/930	1500 LM, 90 CRI, 3000K
			99613	DLM1500/935	1500 LM, 90 CRI, 3500K
			99614	DLM1500/940	1500 LM, 90 CRI, 4000K
			99615	DLM2000/927	2000 LM, 90 CRI, 2700K
			99616	DLM2000/930	2000 LM, 90 CRI, 3000K
			99617	DLM2000/935	2000 LM, 90 CRI, 3500K
			99618	DLM2000/940	2000 LM, 90 CRI, 4000K

4" Round Stocked Reflectors

PRODUCT CODE	DESCRIPTION CODE	PRODUCT DESCRIPTION
93984	RDI4RNSDMR	4" Round Reflector, Narrow Distribution, Semi-Diffuse, Polished Flange
93985	RDI4RNSDWT	4" Round Reflector, Narrow Distribution, Semi-Diffuse, White Flange

Photometric Data: Lumination™ DI4R Series Downlights

Wide Distribution

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	91	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

NOTE: Floor Cavity Reflectance : 20%

CANDLEPOWER SUMMARY

NOMINAL MODULE LUMENS			
	1000	1500	2000
Angle	Candela	Candela	Candela
0	697	1029	1394
5	730	1077	1459
10	782	1154	1563
15	825	1217	1649
20	817	1206	1634
25	703	1038	1406
30	515	760	1030
35	334	492	667
40	200	296	401
45	88	130	176
50	28	42	57
55	12	17	24
60	6	9	13

CONE OF LIGHT

NOMINAL MODULE LUMENS				
	1000	1500	2000	
Height	fc	fc	fc	Dia. (ft.)
6'	19	29	39	6.9
8'	11	16	22	9.2
10'	7	10	14	11.5
12'	5	7	10	13.9
14'	4	5	7	16.2
16'	3	4	5	18.5
18'	2	3	4	20.8
20'	2	3	3	23.1

ZONAL LUMEN SUMMARY

NOMINAL MODULE LUMENS				
	1000	1500	2000	
Zone	Lumens	Lumens	Lumens	% of Fixture
0 - 30°	597	881	1194	69.1
0 - 40°	788	1163	1576	91.1
0 - 60°	860	1269	1719	99.4
0 - 90°	865	1277	1730	100

APPLICATION REFERENCE (Open Space)

NOMINAL MODULE LUMENS						
	1000		1500		2000	
Spacing	Avg. fc	W/ft²	Avg. fc	W/ft²	Avg. fc	W/ft²
4' x 4'	54.5	1.08	80.4	1.50	-	-
6' x 6'	25.5	0.50	37.6	0.70	50.9	0.90
8' x 8'	13.7	0.27	20.1	0.38	27.3	0.48
10' x 10'	9.1	0.18	13.4	0.25	18.2	0.32
10' ceiling, Open Space: 50' x 40' x 10'						

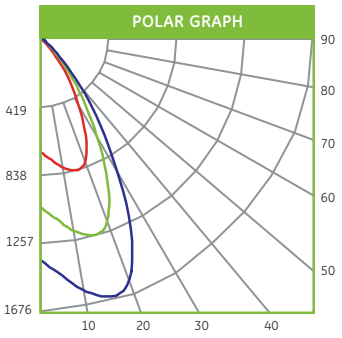
LLF: 1.0 Initial, 80/50/20 Reflectances, 2.5' workplane

APPLICATION REFERENCE (Corridor)

NOMINAL MODULE LUMENS						
	1000		1500		2000	
Spacing	Avg. fc	W/ft²	Avg. fc	W/ft²	Avg. fc	W/ft²
4' on ctr.	23.5	0.75	34.6	1.04	46.9	1.33
6' on ctr.	16.0	0.51	23.5	0.71	31.9	0.91
8' on ctr.	11.3	0.36	16.6	0.50	22.5	0.64
10' on ctr.	9.4	0.30	13.9	0.42	18.8	0.53
10' ceiling, Corridor: 6' W x 100' L						

LLF: 1.0 Initial, 80/50/20 Reflectances, Light levels on the ground

Wide – 1000, 1500, 2000 Lm



Spacing Criteria: DI4R - Wide = 1.14

Product Specifications:

Construction:

- 16 gauge galvanized steel housing
- 16 gauge reflectors resist dents during transporation and installation
- Custom engineered heat sinks for passive cooling at all lumen options
- Galvanized steel junction box with multiple knockouts

Installation:

- Universal mounting brackets with over 3" of vertical adjustment accommodate several types of hanger bars
- Accommodates ceilings up to 1.5" thick
- Mount in T-bar grid or drywall ceilings
- LED module twists in at time of trim installation, preventing damage to module during ceiling installation

Optical System:

- Custom engineered reflectors for precise beam distributions and 45° cutoff to light source and source image
- Self-flanged design with white painted or reflector-matching trim
- Standard semi-diffuse finish for ideal combination of optical efficiency and low glare

Electrical System:

- Infusion DLM LED module for exceptional performance and tool-free upgradeability
- Standard 0-10V dimming, high efficiency drivers
- Thermal protection feature in module protects LEDs from overheating in abnormal conditions

For more information and access to all of our resources, including our design tool visit: **www.gelighting.com**

www.gelighting.com

GE and the GE Monogram are trademarks of the General Electric Company. All other trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. GE Lighting and GE Lighting Solutions, LLC are businesses of the General Electric Company. © 2015 GE.

IND085 (Rev 01/08/15)